

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SHAPER

Report Number: P701927

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

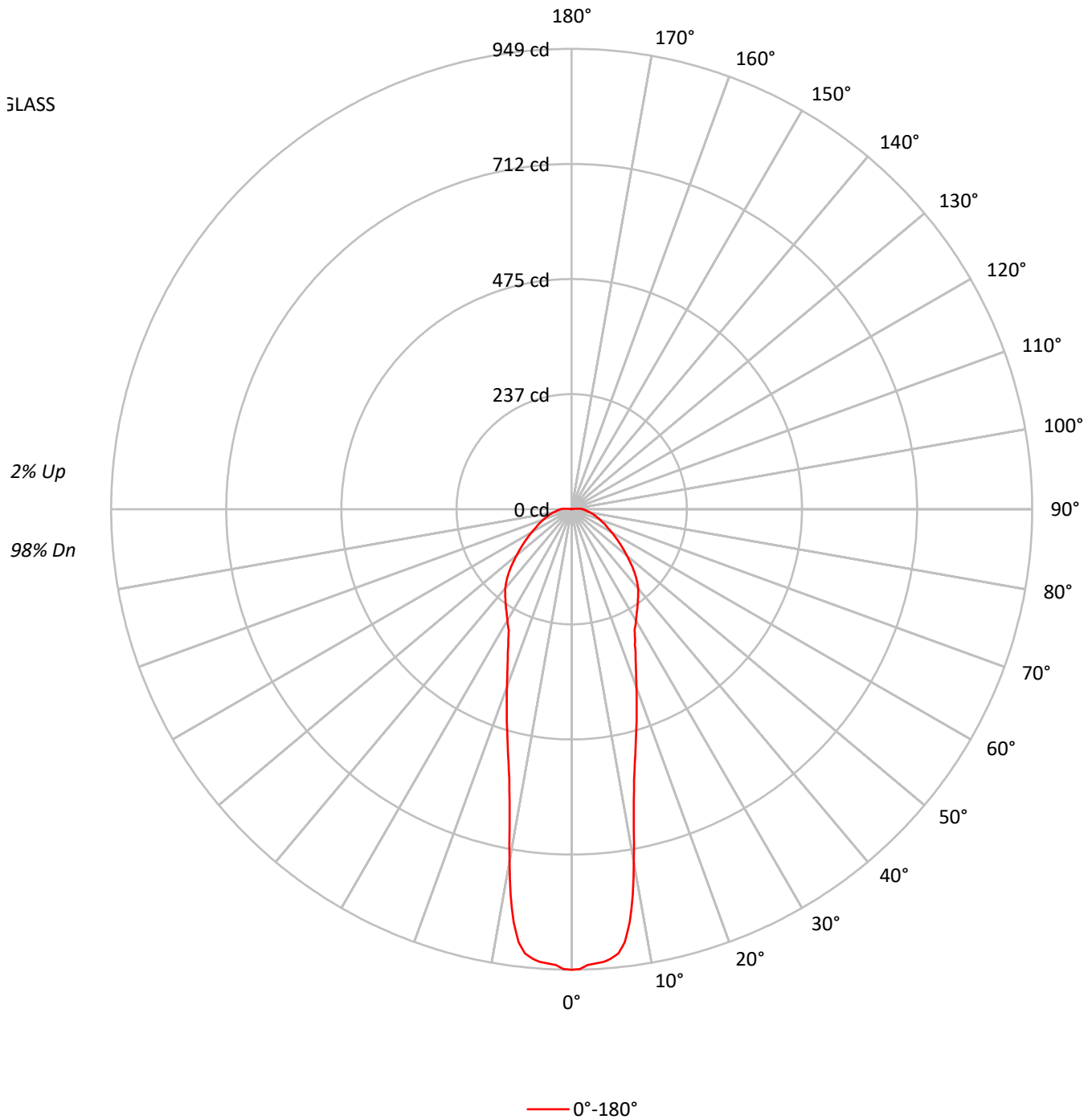
Lumens per Lamp: N/A
Luminaire Lumens: 945.6 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	43	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110103
5°	94254
10°	66920
15°	42009
20°	29737
25°	22029
30°	17910
35°	15351
40°	13314
45°	11084
50°	8827
55°	7039
60°	5604
65°	4542
70°	3706
75°	3012
80°	2376
85°	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	8.8
10°-20°	143.9	15.2
20°-30°	144.1	15.2
30°-40°	148.7	15.7
40°-50°	139.9	14.8
50°-60°	107.3	11.3
60°-70°	76.5	8.1
70°-80°	52.2	5.5
80°-90°	32.6	3.5
90°-100°	15.5	1.6
100°-110°	1.4	0.1
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	371.5	39.3
0°-40°	520.2	55.0
0°-60°	767.4	81.2
0°-90°	928.7	98.2
90°-120°	16.9	1.8
90°-150°	16.9	1.8
90°-180°	17.0	1.8
0°-180°	945.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	949	
5°	930	83
15°	509	144
25°	308	144
35°	237	149
45°	182	140
55°	119	107
65°	77	76
75°	49	52
85°	30	26
90°	23	13
95°	14	10
105°	0	1
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	949.3
1°	948.1
2°	940.1
3°	937.8
4°	935.5
5°	929.8
6°	920.6
7°	898.8
8°	859.9
9°	804.8
10°	738.3
11°	670.7
12°	614.5
13°	570.9
14°	537.7
15°	509.0
16°	481.5
17°	457.4
18°	433.4
19°	410.4
20°	389.8
21°	370.3
22°	353.1
23°	337.1
24°	323.3
25°	308.4
27.5°	280.9
30°	264.8
32.5°	249.9
35°	237.3
37.5°	224.7
40°	213.2
42.5°	198.3
45°	182.3
47.5°	165.1
50°	147.9
52.5°	133.0
55°	119.2
57.5°	106.6
60°	95.2
62.5°	84.8
65°	76.8
67.5°	68.8
70°	61.9
72.5°	55.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	49.3
77.5°	43.6
80°	37.8
82.5°	33.2
85°	29.8
87.5°	26.4
90°	22.9
92.5°	19.5
95°	13.8
97.5°	9.2
100°	5.7
102.5°	2.3
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)